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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/961,293	09/25/2001	Shigeichiro Yamasaki	1504.1006	6803
21171 7:	590 03/24/2005		EXAM	INER
STAAS & HALSEY LLP SUITE 700			WILLIAMS, JEFFERY L	JEFFÉRY L
	PRK AVENUE, N.W.		ART UNIT	PAPER NUMBER
	N, DC 20005		2137	
			DATE MAILED: 03/24/200:	5

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> 1</u>		
· · ·	Application No.	Applicant(s)
	09/961,293	YAMASAKI ET AL.
Office Action Summary	Examiner	Art Unit
	Jeffery Williams	2137
The MAILING DATE of this communication app	ears on the cover sheet with t	he correspondence address
Period for Reply	VIC SET TO EVRIDE 2 MON	THIS EDOM
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS, cause the application to become ABANE	be timely filed  b) days will be considered timely. from the mailing date of this communication.  DONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 25 Section 2	eptember 2001.	
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	action is non-final.	
3) Since this application is in condition for allowar		·
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 1	I, 453 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 25 September 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	are: a) $\square$ accepted or b) $\square$ of drawing(s) be held in abeyance. ion is required if the drawing(s) i	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Appl rity documents have been rec u (PCT Rule 17.2(a)).	ication No ceived in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892)		mary (PTO-413)
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 9-25-01</li> </ul>		ail Date mal Patent Application (PTO-152)

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1	DETAILED ACTION
2	
3	Remarks
4	
5	Claim Rejections - 35 USC § 103
6	
7	The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
8	obviousness rejections set forth in this Office action:
9 10 11 12 13 14	(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
15	Claims 1 – 15 are rejected under 35 U.S.C. 103(a) as being unpatentable
16	over Sims, "Media Content Protection Utilizing Public Key Cryptography", U.S.
17	Patent 6,550,011 B1.
18	
19	Regarding claim 1, Sims discloses a media content protection system designed
20	to securely distribute and use content. He presents a cryptographic key management
21	scheme for both authentication and encryption in a system for securely transferring
22	content from content providers to content users (Sims, figs. 2A, 2B, 3 and 4). The
23	system of Sims includes a data processing apparatus of a user for receiving a content
24	supplied from a content transmitter (Sims, fig. 1, elem. 101). The data processing
25	apparatus of the user is provided with a tamper-resistant device storing data
26	inaccessible from outside (Sims, col. 11, lines 5-23). A content transmitter provides a

1 cipher to the content user, who in turn decodes the cipher (Sims, fig. 2A, elems. 200,

2 201, 202). Sims discloses a communications network connecting the system elements

for mutual data communication (Sims, fig. 1, elem. 135).

While Sims makes mention of third party certification authorities (Sims, col. 5, lines 39-59), his disclosed key management scheme is handled largely by the content provider. The content provider of Sims, creates and provisions content, as well as encrypts and delivers content encryption keys. In addition, Sims discloses that the content provider could act as its own certification authority for public key cryptography authentication (Sims, col. 21, lines 48-51). Thus, Sims discloses the claimed apparatus and functionality of both a content transmitter and a trusted third party data processing apparatus combined into one, a content provider. Sims does not disclose a *data* processing apparatus of a third party.

As mentioned, the single content provider of Sims performs two system functions, whereas the applicant claims two system elements - a content transmitter for secure content creation and provision and a third party apparatus for enabling a secure key management scheme. The applicant logically separates the functionality of the content provider of Sims into a content transmitter and a third party apparatus.

However, it would have been obvious to one of ordinary skill in the art, based upon legal precedent, to make separable the single content provider of Sims into the two claimed elements of the applicant, because the distinguishable division of labor would advantageously allow one system element to focus on content creation and provision

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and the other system element to focus on enabling a secure key management scheme

(In re Dulberg, 289 F.2d 522, 523, 129 USPQ 348, 349 (CCPA 1961)).

Therefore, the modification of Sims discloses a data processing apparatus of a third party trusted by both the content transmitter and the user (Sims, fig. 2A, elems. 200, 201), as well as wherein the data processing apparatus of the third party transmits first data to the data processing apparatus of the user, the first data relating to an encryption key that decodes a cipher generated by the content transmitter, the encryption key being obtained only within the tamper-resistant device (Sims, fig. 2A, elem. 201).

Regarding claim 2, it is essentially the same as claim 1, with the additional limitation:

wherein the data processing apparatus of the content transmitter supplies a cipher to the data processing apparatus of the user (Sims, fig. 2B);

Regarding claim 3, the modification of Sims discloses:

wherein the data processing apparatus of the third party stores a public key and a secret key, the public key being transmitted to the data processing apparatus of the content transmitter as required by the data processing apparatus of the content transmitter (Sims, col. 5, lines 35-59);

wherein the data processing apparatus of the content transmitter encodes the encryption key by using the public key from the data processing apparatus of the third

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1 party, the encoded encryption key being transmitted to the data processing apparatus of

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2 the user (Sims, col. 5, lines 53-59; fig. 2A, elem. 201);

wherein the data processing apparatus of the user causes the tamper-resistant device to generate second data based on the encoded encryption key from the data processing apparatus of the content transmitter, the second data being transmitted to the data processing apparatus of the third party (Sims, col. 16, lines 18-29). The tamper-resistant device "generates" second data based upon the encoded encryption key by generating a random number and sending it to an originating device, where it is combined with the encoded encryption key. Since the "originating device" is part of the disclosed secure key management scheme of Sims, the originating device is part of the obvious third party apparatus disclosed in the modification of Sims.

and wherein the data processing apparatus of the third party generates the first data based on the secret key and the second data supplied from the data processing apparatus of the user (Sims, col. 16, lines 44-52).

Regarding claim 4, the modification of Sims discloses:

an additional third party, wherein the tamper-resistant device divides the second data into pieces one of which is received by a relevant one of the third parties (Sims, fig. 1; col. 16, lines 44-60). As disclosed, the tamper-resistant device divides the second data (content key + random number) and stores the content key (separated from the

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1 second data) in an appropriate area, such as an additional third party (Sims, fig.1, elem.

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2 112).

Regarding claim 5, the modification of Sims discloses:

wherein the tamper-resistant device allows mixing of a random number component in generating the second data based on the encoded encryption key, while also allowing removal of the random number component from the first data in decoding the cipher by using the first data (Sims, col. 16, lines 18-29).

Regarding claim 6, the modification of Sims discloses:

wherein the tamper-resistant device stores information on the public key in a form of a digital certificate by an authentication agency, the tamper-resistant device being supplied to the user after the user is identified by the authentication agency (Sims, col. 14, lines 49-59; col. 15, lines 22-26; col. 21, lines 16-20). Sims discloses that digital certificates are stored on the tamper-resistant devices and that the identity of a user of a device is tied to the device itself, and therefore, the user is identified by the authentication agency.

and wherein the data processing apparatus of the third party confirms the identification of the user based on the public key information supplied in the form of the digital certificate from the data processing apparatus of the user (Sims, col. 12, lines 23-30).

1	Regarding claim 7, the modification of Sims discloses the tamper-resistant device
2	comprising:
3	a memory storing data inaccessible from outside (Sims, fig. 1, elems. 112, 113,
4	117, 116);
5	a key obtainer that restores the decoding key based on the key data supplied
6	from the data processing apparatus of the third party (Sims, fig. 1, elems. 112, 113, 117,
7	116);;
8	and a decoder that decodes the encrypted content by using the decoding key
9	restored by the key obtainer (Sims, fig. 1, elems. 112, 113, 117, 116);
10	
11	Regarding claim 8, the modification of Sims discloses the server comprising:
12	a data generator that generates first data relating to a key to decode the
13	encrypted content from the data processing apparatus of the content transmitter, the
14	decoding key being generated only within the tamper-resistant device (Sims, col. 16,
15	lines 18-43). The originating device, part of the third party apparatus as explained
16	regarding claim 3, generates the first data.
17	and a data transmitter that sends the first data to the data processing apparatus
18	of the user via the communications network (Sims, col. 16, lines 46-52).
19	
20	Regarding claim 9, it is a computer program version of the server claim 8, and is
21	rejected by the same rationality.

1	Regarding claim 10, the modification of Sims discloses a content distribution
2	process comprising the steps of:
3	causing the data processing apparatus of the user to issue an instruction to the
4	data processing apparatus of the third party for carrying out a procedure to make a
5	payment for the content (Sims, col. 7, lines 21-27);
6	causing the data processing apparatus of the third party to send first data to the
7	data processing apparatus of the user when the payment for the content is made from
8	an account of the user to an account of the third party, the first data serving to provides
9	a key that decodes the encrypted content, the decoding key being available only within
10	the data processing apparatus of the user (Sims, col. 9, lines 33-40);
11	and causing the data processing apparatus of the user to decode the encrypted
12	content using the first data supplied from the data processing apparatus of the third
13	party (Sims, col. 9, lines 40-42).
14	
15	Regarding claims $11 - 13$ , they recite the same limitations found in claims 2, 3,
16	and 5, and are rejected for the same reasons.
17	
18	Regarding claim 14, the modification of Sims discloses:
19	wherein the tamper- resistant device generates the second data and decodes the
20	encrypted content (Sims, col. 16, lines 18-29; fig. 2A, elem. 202).
21	
22	Regarding claim 15, the modification of Sims discloses:

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1 wherein the data processing apparatus of the third party carries out the payment 2 procedure from the account of the third party to the account of the content transmitter 3 when the data processing apparatus of the third party receives content confirmation notice from the data processing apparatus of the user (Sims. col. 7, lines 21-27; col. 9. 4

lines 33-40). Sims discloses before payment for content, the user transmits to the third

party his request for that particular content, thus providing a content confirmation notice.

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Conclusion 9

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The following prior art made of record and not relied upon is considered pertinent to the applicant's disclosure:

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- a. Graunke et al., "Method for Securely Distributing a Conditional Use Private 14 Key to a Trusted Entity on a Remote System", U.S. Patent 5,991,399. 15
  - b. Spies et al., "System and Method For Secure Purchase and Delivery of Video Content Programs", U.S. Patent 6,055,314.
- 18 c. Wang et al., "System and Method for Transferring the Right to Decode 19 Messages in a Symmetric Encoding Scheme", U.S. Patent 6,859,533 B1.

20

	Any inquiry concerning this communication or earlier communications from the
2	examiner should be directed to Jeffery Williams whose telephone number is (571) 272-
3	7965. The examiner can normally be reached on 8:30-5:00.
4	If attempts to reach the examiner by telephone are unsuccessful, the examiner's
5	supervisor, Andrew Caldwell can be reached on (571) 272-3868. The fax phone
6	number for the organization where this application or proceeding is assigned is 703-
7	872-9306.
8	Information regarding the status of an application may be obtained from the
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10	published applications may be obtained from either Private PAIR or Public PAIR.
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15	Ou tous Carly PM
16 17 18 19 20 21	Jeffery Williams (571) 272-7965 March 17, 2005  ANDREW CALDWELL SUPERVISORY PATENT EXAMINER